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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 21/12/2018**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/12/2018	21/12/2018	150.20 X 151.47 X 151.46	22751	**8.376**	415.6	18.3	18.5
2	Drain Concrete	M20	14/12/2018	21/12/2018	149.10 X 149.23 X 151.88	22250	**8.530**	421.8	19.0	
3	Drain Concrete	M20	14/12/2018	21/12/2018	150.52 X 149.54 X 149.62	22509	**8.578**	411.2	18.3	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 11/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottrgollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/12/2018	11/01/2019	150.23 X 151.96 X 150.18	22829	**8.578**	528.2	23.1	23.1
2	Drain Concrete	M20	14/12/2018	11/01/2019	149.36 X 149.90 X 149.41	22389	**8.841**	504.5	22.5	
3	Drain Concrete	M20	14/12/2018	11/01/2019	149.84 X 151.77 X 151.45	22740	**8.311**	534.3	23.5	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 21/12/2018**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/12/2018	21/12/2018	151.95 X 150.25 X 150.83	22830	**8.924**	411.3	18.0	18.4
2	Drain Concrete	M20	14/12/2018	21/12/2018	151.79 X 151.82 X 151.32	23044	**8.374**	427.9	18.6	
3	Drain Concrete	M20	14/12/2018	21/12/2018	150.43 X 150.34 X 149.98	22616	**8.249**	420.9	18.6	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 11/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/12/2018	11/01/2019	149.28 X 149.77 X 150.90	22358	**8.113**	529.5	23.7	23.2
2	Drain Concrete	M20	14/12/2018	11/01/2019	150.39 X 151.37 X 150.36	22764	**8.849**	511.7	22.5	
3	Drain Concrete	M20	14/12/2018	11/01/2019	149.08 X 150.68 X 151.58	22463	**8.309**	523.2	23.3	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 21/12/2018**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/12/2018	21/12/2018	149.81 X 151.14 X 151.91	22642	**8.494**	428.2	18.9	18.3
2	Drain Concrete	M20	14/12/2018	21/12/2018	151.65 X 150.94 X 151.62	22890	**8.777**	412.2	18.0	
3	Drain Concrete	M20	14/12/2018	21/12/2018	151.53 X 149.05 X 149.04	22585	**8.123**	407.2	18.0	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 11/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/12/2018	11/01/2019	150.51 X 151.20 X 151.94	22756	**8.918**	531.6	23.4	23.0
2	Drain Concrete	M20	14/12/2018	11/01/2019	149.00 X 151.83 X 151.40	22623	**8.294**	499.4	22.1	
3	Drain Concrete	M20	14/12/2018	11/01/2019	149.36 X 150.23 X 151.39	22439	**8.349**	528.2	23.5	

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 04/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 31-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	28/12/2018	04/01/2019	150.65 X 149.99 X 149.60	22595	**8.634**	416.6	18.4	18.2
2	Drain Concrete	M20	28/12/2018	04/01/2019	149.40 X 150.22 X 150.67	22442	**8.782**	404.3	18.0	
3	Drain Concrete	M20	28/12/2018	04/01/2019	150.18 X 151.07 X 149.43	22688	**8.935**	414.3	18.3	

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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 25/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 31-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	28/12/2018	25/01/2019	150.63 X 149.13 X 151.92	22464	**8.550**	537.8	23.9	23.5
2	Drain Concrete	M20	28/12/2018	25/01/2019	151.54 X 150.28 X 151.96	22774	**8.528**	512.5	22.5	
3	Drain Concrete	M20	28/12/2018	25/01/2019	150.34 X 150.97 X 151.54	22697	**8.938**	543.8	24.0	

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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 04/01/2019**

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Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 31-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	28/12/2018	04/01/2019	150.20 X 150.44 X 150.44	22596	**8.634**	413.6	18.3	18.4
2	Drain Concrete	M20	28/12/2018	04/01/2019	151.22 X 151.72 X 150.01	22943	**8.782**	424.6	18.5	
3	Drain Concrete	M20	28/12/2018	04/01/2019	151.41 X 149.05 X 151.79	22567	**8.935**	412.4	18.3	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 25/01/2019**

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Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 31-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	28/12/2018	25/01/2019	150.89 X 150.06 X 149.10	22643	**8.550**	523.3	23.1	22.8
2	Drain Concrete	M20	28/12/2018	25/01/2019	151.55 X 149.11 X 149.16	22596	**8.528**	503.3	22.3	
3	Drain Concrete	M20	28/12/2018	25/01/2019	151.55 X 151.56 X 149.53	22970	**8.938**	530.7	23.1	

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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 04/01/2019**

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Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 31-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	28/12/2018	04/01/2019	149.00 X 151.35 X 150.70	22552	**8.634**	412.4	18.3	18.5
2	Drain Concrete	M20	28/12/2018	04/01/2019	151.50 X 149.23 X 150.29	22609	**8.782**	423.1	18.7	
3	Drain Concrete	M20	28/12/2018	04/01/2019	151.03 X 150.30 X 149.56	22701	**8.935**	418.7	18.4	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro BANGALORE Sig..... Date.....

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 25/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 31-12-2018

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	28/12/2018	25/01/2019	151.77 X 151.32 X 149.56	22966	**8.550**	539.5	23.5	22.9
2	Drain Concrete	M20	28/12/2018	25/01/2019	149.83 X 151.85 X 151.24	22752	**8.528**	503.9	22.1	
3	Drain Concrete	M20	28/12/2018	25/01/2019	150.99 X 151.88 X 150.87	22932	**8.938**	527.7	23.0	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 09/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 04-01-2019

Customer ID : Slope Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slope Concrete	M15	02/01/2019	09/01/2019	151.02 X 151.65 X 151.97	22903	**8.803**	275.8	12.0	12.3
2	Slope Concrete	M15	02/01/2019	09/01/2019	150.35 X 151.42 X 151.41	22767	**8.262**	284.7	12.5	
3	Slope Concrete	M15	02/01/2019	09/01/2019	151.32 X 150.75 X 151.75	22811	**8.958**	280.9	12.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig. Date

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 30/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 04-01-2019

Customer ID : Slope Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slope Concrete	M15	02/01/2019	30/01/2019	149.63 X 151.93 X 150.94	22733	**8.338**	394.4	17.3	17.3
2	Slope Concrete	M15	02/01/2019	30/01/2019	149.24 X 151.69 X 151.11	22638	**8.746**	393.7	17.4	
3	Slope Concrete	M15	02/01/2019	30/01/2019	150.06 X 149.32 X 151.52	22406	**8.782**	381.5	17.0	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 09/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 04-01-2019

Customer ID : Slope Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slope Concrete	M15	02/01/2019	09/01/2019	151.50 X 151.56 X 150.98	22962	**8.803**	295.6	12.9	12.4
2	Slope Concrete	M15	02/01/2019	09/01/2019	151.93 X 149.88 X 151.91	22772	**8.262**	274.7	12.1	
3	Slope Concrete	M15	02/01/2019	09/01/2019	151.19 X 149.74 X 150.88	22639	**8.958**	274.9	12.1	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID : **CP-2018-12-31-139** **Date: 30/01/2019**

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Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 04-01-2019

Customer ID : Slope Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slope Concrete	M15	02/01/2019	30/01/2019	150.02 X 150.67 X 151.69	22603	**8.338**	398.1	17.6	17.5
2	Slope Concrete	M15	02/01/2019	30/01/2019	151.48 X 149.10 X 151.71	22586	**8.746**	398.7	17.7	
3	Slope Concrete	M15	02/01/2019	30/01/2019	151.50 X 151.14 X 151.96	22898	**8.782**	392.9	17.2	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 09/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 04-01-2019

Customer ID : Slope Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slope Concrete	M15	02/01/2019	09/01/2019	151.71 X 151.47 X 151.22	22979	**8.803**	277.3	12.1	12.4
2	Slope Concrete	M15	02/01/2019	09/01/2019	149.84 X 151.84 X 149.45	22751	**8.262**	288.0	12.7	
3	Slope Concrete	M15	02/01/2019	09/01/2019	149.65 X 150.97 X 149.74	22594	**8.958**	279.8	12.4	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig. Date BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 30/01/2019**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 04-01-2019

Customer ID : Slope Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slope Concrete	M15	02/01/2019	30/01/2019	151.32 X 149.71 X 151.94	22654	**8.338**	389.6	17.2	17.3
2	Slope Concrete	M15	02/01/2019	30/01/2019	151.12 X 151.08 X 149.83	22832	**8.746**	392.9	17.2	
3	Slope Concrete	M15	02/01/2019	30/01/2019	149.88 X 149.49 X 151.26	22406	**8.782**	393.9	17.6	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2018-12-31-139** **Date: 03-01-19**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 01-01-19

Type of Mix : GSB (Granular Sub Base)

Date of test : 01-01-19

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1686	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	896	9790	97.90	2.10	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P,
Bangalore.

Sig.....
Date.....

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-12-31-139** **Date: 11-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	07-01-19
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-01-19
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-12-31-139**	**Date: 11-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)	
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08	
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043	
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	07-01-19	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	07-01-19	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig..... Date.....

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-12-31-139**	**Date: 11-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)	
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08	
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043	
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	07-01-19	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	07-01-19	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig Date

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2018-12-31-139** **Date: 16-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	15-01-19
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	15-01-19

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**63**	60 to 70
2	Softening Point, °C	**51.6**	Min. 40°C
3	Ductility, cm	**97**	Min. 75cm
4	Flash point, °C	**244**	Min. 220°C
	Fire point, °C	**278**	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sign Date BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2018-12-31-139** **Date: 19-01-19**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-01-19

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 17-01-19

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date BANGALORE

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-12-31-139**	**Date: 19-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)	
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08	
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043	
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	17-01-19	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of test	:	17-01-19	

Type of Binder	:	60/70
% of Binder Used	:	5.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.9	1.1	98.7	Minimum Retained Coating 95%
2	98.8	1.2		
3	98.5	1.5		

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-12-31-139**	**Date: 19-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)	
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08	
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043	
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	17-01-19	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	17-01-19	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-12-31-139** **Date: 19-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	17-01-19
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	17-01-19

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2018-12-31-139 **Date: 19-01-19**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Work Order Ref : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-01-19

Type of Mix : Tack coat

Date of test : 19-01-19

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.789	0.749
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.013	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.254	0.254
7	Average	Kg/sq.m	0.254	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig. Date.

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-12-31-139**	**Date: 21-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)	
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08	
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043	
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	19-01-19	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	19-01-19	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.40	5.60
4	Average percentage	%	5.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Lab ID : **CP-RW-2018-12-31-139** **Date: 21-01-19**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	47	47	9.9	90.1	90-100
9.5	56	103	21.9	78.1	70-88
4.75	66	169	35.8	64.2	53-71
2.36	61	230	48.7	51.3	42-58
1.18	33	263	55.6	44.4	34-48
0.6	28	291	61.6	38.4	26-38
0.3	47	338	71.5	28.5	18-28
0.15	42	381	80.5	19.5	12-20
0.075	52	432	91.4	8.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	24	24	5.0	95.0	90-100
9.5	57	80	17.0	83.0	70-88
4.75	113	193	40.9	59.1	53-71
2.36	33	226	47.9	52.1	42-58
1.18	42	268	56.9	43.1	34-48
0.6	71	339	71.8	28.2	26-38
0.3	33	372	78.8	21.2	18-28
0.15	12	384	81.4	18.6	12-20
0.075	61	445	94.3	5.7	4-10

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2018-12-31-139 **Date: 22-01-19**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Work Order Ref : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 22-01-19

Type of Mix : Tack coat

Date of test : 22-01-19

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.788	0.746
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.014	0.027
6	Rate of spread of tack coat	Kg/sq.m	0.255	0.255
7	Average	Kg/sq.m	0.255	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-12-31-139**	**Date: 24-01-19**
Project Name	:	Package No.03(Package Consists of 21 Works)	
Name of Work	:	Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08	
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043	
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	22-01-19	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	22-01-19	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.20
4	Average percentage	%	5.4	

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Authorized Signatory
Quality Manager

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Lab ID : **CP-RW-2018-12-31-139** **Date: 24-01-19**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	47	47	10.0	90.0	90-100
9.5	56	103	21.9	78.1	70-88
4.75	66	169	35.8	64.2	53-71
2.36	61	230	48.8	51.2	42-58
1.18	33	263	55.8	44.2	34-48
0.6	30	293	62.1	37.9	26-38
0.3	49	342	72.5	27.5	18-28
0.15	42	385	81.5	18.5	12-20
0.075	52	436	92.4	7.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	24	24	5.0	95.0	90-100
9.5	57	80	16.9	83.1	70-88
4.75	113	193	40.7	59.3	53-71
2.36	33	226	47.7	52.3	42-58
1.18	42	268	56.6	43.4	34-48
0.6	71	339	71.5	28.5	26-38
0.3	33	372	78.5	21.5	18-28
0.15	8	380	80.2	19.8	12-20
0.075	61	441	93.1	6.9	4-10

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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End of Report

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2018-12-31-139 **Date: 23-01-19**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Work Order Ref : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 23-01-19

Type of Mix : Tack coat

Date of test : 23-01-19

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.789	0.749
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.013	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.254	0.254
7	Average	Kg/sq.m	0.254	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date BANGALORE

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2018-12-31-139** **Date: 25-01-19**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 23-01-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 23-01-19

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2018-12-31-139** **Date: 25-01-19**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	47	47	10.0	90.0	90-100
9.5	56	103	22.0	78.0	70-88
4.75	66	169	35.9	64.1	53-71
2.36	61	230	48.9	51.1	42-58
1.18	33	263	55.9	44.1	34-48
0.6	30	293	62.3	37.7	26-38
0.3	49	342	72.7	27.3	18-28
0.15	42	385	81.6	18.4	12-20
0.075	52	436	92.6	7.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	24	24	5.0	95.0	90-100
9.5	57	80	17.0	83.0	70-88
4.75	113	193	40.9	59.1	53-71
2.36	33	226	47.9	52.1	42-58
1.18	42	268	56.9	43.1	34-48
0.6	71	339	71.8	28.2	26-38
0.3	33	372	78.8	21.2	18-28
0.15	8	380	80.5	19.5	12-20
0.075	61	441	93.5	6.5	4-10

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

M : 9972924526 | Tel : +91 80 23444801 | karthikrechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2018-12-31-139** **Date: 25-01-19**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 23-01-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 23-01-19

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	5.60
4	Average percentage	%	5.8	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID : **CP-RW-2018-12-31-139** **Date: 25-01-19**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	47	47	10.0	90.0	90-100
9.5	56	103	22.0	78.0	70-88
4.75	66	169	36.0	64.0	53-71
2.36	61	230	49.0	51.0	42-58
1.18	33	263	56.0	44.0	34-48
0.6	30	293	62.4	37.6	26-38
0.3	49	342	72.8	27.2	18-28
0.15	42	385	81.8	18.2	12-20
0.075	52	436	92.8	7.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	24	24	5.0	95.0	90-100
9.5	57	80	17.0	83.0	70-88
4.75	113	193	40.9	59.1	53-71
2.36	33	226	47.9	52.1	42-58
1.18	42	268	56.9	43.1	34-48
0.6	71	339	71.8	28.2	26-38
0.3	33	372	78.8	21.2	18-28
0.15	8	380	80.5	19.5	12-20
0.075	61	441	93.5	6.5	4-10

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

End of Report

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

DETERMINATION OF RATE OF SPREAD TACK COAT

Date: 25-01-19

Lab ID : CP-RW-2018-12-31-139

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvement to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Work Order Ref : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 25-01-19

Type of Mix : Tack coat

Date of test : 25-01-19

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.789	0.749
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.015	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.255	0.256
7	Average	Kg/sq.m	0.254	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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